

NEW, CONTINUATION, DIVISIONAL OR  
CONTINUATION-IN-PART APPLICATION  
UNDER 37 C.F.R. §1.53(b)

Attorney Docket No. DKT 94074A  
(8001-000020-COB)  
Express Mail Label No. EJ 948 719 073 US  
Date November 12, 1999

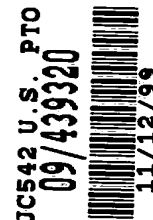
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Hon. Commissioner of Patents and Trademarks  
Washington, D. C. 20231

Sir:

Transmitted herewith for filing under 37 C.F.R §1.53(b) is a patent application for

**"REGENERATIVE PUMP HAVING VANES AND SIDE CHANNELS  
PARTICULARLY SHAPED TO DIRECT FLUID FLOW"**



identified by: ☐ First named inventor \_\_\_\_\_  
or ☒ Attorney Docket No. (see above)

1. Type of Application

- ☐ This application is a new (non-continuing) application.
- ☒ This application is a ☒ continuation / ☐ divisional / ☐ continuation-in-part of prior application No. 08/596,612, filed 2/5/96, which is a continuation-in-part of prior application No. 08/253,543, filed 6/3/94, now U.S. Patent No. 5,527,149, issued 6/18/96. Amend the specification by inserting before the first line the sentence:

--This is a continuation of United States patent application No. 08/596,612, filed 2/5/96, which is a continuation-in-part of prior application No. 08/253,543, filed 6/3/94, now U.S. Patent No. 5,527,149, issued 6/18/96.--

- ☒ The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied, is considered part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

If for some reason applicant has not requested a sufficient extension of time in the parent application, and/or has not paid a sufficient fee for any necessary response in the parent application and/or for the extension of time necessary to prevent the abandonment of the parent application prior to the filing of this application, please consider this as a Request for an Extension for the required time period and/or authorization to charge our Deposit Account No. 08-0750 for any fee that may be due. THIS FORM IS BEING FILED IN TRIPLICATE: one copy for this application; one copy for use in connection with the Deposit Account (if applicable); and one copy for the above-mentioned parent application (if any extension of time is necessary).

2. Contents of Application

- a. Specification of 29 pages;  
☐ A microfiche computer program (Appendix);  
☐ A nucleotide and/or amino acid sequence submission;
- ☐ Because the enclosed application is in a non-English language, a verified English translation ☐ is enclosed ☐ will be filed.
- ☐ Cancel original claims \_\_\_\_\_ of the prior application before calculating the filing fee. (At least one original independent claim must be retained for filing date purposes.)
- b. ☒ Drawings on 11 sheets;

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- c. ☒ A signed Oath/Declaration ☒ is enclosed / ☐ will be filed in accordance with 37 C.F.R. §1.53(f).

The enclosed Oath/Declaration is ☐ newly executed / ☒ a copy from a prior application under 37 C.F.R. §1.63(d) / ☐ accompanied by a statement requesting the deletion of person(s) not inventors in the continuing application.

d. **Fees**

| <b>FILING FEE</b>                                                              | Number    | Number |            | Basic Fee       |
|--------------------------------------------------------------------------------|-----------|--------|------------|-----------------|
| <b>CALCULATION</b>                                                             | Filed     | Extra  | Rate       | \$760.00        |
| Total Claims                                                                   | 20 - 20 = | 0 x    | \$18.00 =  | 0               |
| Independent Claims                                                             | 3 - 3 =   | 0 x    | \$78.00 =  | 0               |
| Multiple Dependent Claim(s) Used                                               |           |        | \$260.00 = | 0               |
| FILING FEE - NON-SMALL ENTITY                                                  |           |        |            | \$760.00        |
| FILING FEE - SMALL ENTITY: Reduction by 1/2                                    |           |        |            |                 |
| <input type="checkbox"/> Verified Statement under 37 C.F.R. §1.27 is enclosed. |           |        |            | 0               |
| <input type="checkbox"/> Verified Statement filed in prior application.        |           |        |            |                 |
| Assignment Recordal Fee (\$40.00)                                              |           |        |            | 0               |
| 37 C.F.R. §1.17(k) Fee (non-English application)                               |           |        |            | 0               |
| <b>TOTAL</b>                                                                   |           |        |            | <b>\$760.00</b> |

- ☒ A check is enclosed to cover the calculated fees. The Commissioner is hereby authorized to charge any additional fees that may be required, or credit any overpayment, to Deposit Account No. 08-0750. A duplicate copy of this document is enclosed.
- ☐ The calculated fees will be paid within the time allotted for completion of the filing requirements.
- ☐ The calculated fees are to be charged to Deposit Account No. 08-0750. The Commissioner is hereby authorized to charge any additional fees that may be required, or credit any overpayment, to said Deposit Account. A duplicate copy of this document is enclosed.

3. **Priority Information**

- ☐ **Foreign Priority:** Priority based on \_\_\_\_\_ Application No. \_\_\_\_\_, filed \_\_\_\_\_, is claimed.
- ☐ A copy of the above referenced priority document ☐ is enclosed / ☐ will be filed in due course, pursuant to 35 U.S.C. §119(a)-(d).
- ☐ **Provisional Application Priority:** Priority based on United States Provisional Application No. \_\_\_\_\_, filed \_\_\_\_\_, is claimed under 35 U.S.C. §119(e).

Attorney Docket No. DKT 94074A

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**4. Other Submissions**

☒ A Preliminary Amendment is enclosed.

☒ A Supplemental Information Disclosure Statement, one sheet of PTO Form 1449, and 5 patent(s)/publications/documents are enclosed.

☒ A power of attorney

☐ is submitted ☐ with the new Oath/Declaration.

☒ is of record in the prior application and ☐ is in the original papers / ☒ a copy is enclosed.

☒ An Assignment of the invention

☐ is enclosed with a cover sheet pursuant to 37 C.F.R. §§3.11, 3.28 and 3.31.

☒ is of record in a prior application. The assignment is to Coltec Industries Inc., and is recorded at Reel 8253, Frame(s) 0436.

☐ An Establishment of Assignee's Right To Prosecute Application Under 37 C.F.R. §3.73(b), and Power Of Attorney is enclosed.

☒ An Express Mailing Certificate is enclosed.

☒ Other: Transmittal of Formal Drawings with 11 Sheets of Formal Drawings

Return Receipt Postcard

Please direct all correspondence relating to this patent application to:

Patent Docket Administrator  
Borg-Warner Automotive, Inc.  
3001 West Big Beaver Road - Suite 200  
P.O. Box 5060  
Troy, MI 48007-5060

and direct telephone calls to Philip R. Warn at (248) 641-1600.

Respectfully,

Date November 12, 1999  
Harness, Dickey & Pierce, P.L.C.  
P.O. Box 828  
Bloomfield Hills, Michigan 48303  
(248) 641-1600

  
Philip R. Warn, Reg. No. 32775  
Joseph M. Lafata, Reg. No. 37166

A

**HARNES, DICKEY & PIERCE, P.L.C.**  
ATTORNEYS AND COUNSELORS  
P.O. BOX 828  
BLOOMFIELD HILLS, MICHIGAN 48303  
U.S.A.

CABLE  
PATENTS TROY, MICHIGAN  
TELEX NO. & REPLY  
287637 HARNES UR  
TELEFACSIMILE  
(248) 641-0270

November 12, 1999

Hon. Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Sir:

**EXPRESS MAILING CERTIFICATE**

Applicant: Norman Moss, et al.  
Serial No. (if any):

For: U.S. Patent Application  
"REGENERATIVE PUMP HAVING VANES AND SIDE CHANNELS  
PARTICULARLY SHAPED TO DIRECT FLUID FLOW"

Docket: DKT 94074A (8001-000020-COB)

Attorney: Philip R. Warn

**"Express Mail" Mailing Label Number . . . . . EJ 948 719 073 US**

**Date of Deposit . . . . . November 12, 1999**

I hereby certify and verify that the accompanying Transmittal Letter for Continuation Application (in triplicate); Patent Application (29 pages) with Signed Declaration and Power of Attorney; 11 sheets of Informal Drawings; Transmittal of Formal Drawings with 11 Sheets of Formal Drawings; Our Check in the Amount of \$760.00; Preliminary Amendment; Supplemental Information Disclosure Statement with PTO Form 1449 (1 sheet) and copies of 5 references; and Postcard are being deposited with the United States Postal Service "Express Mail Post Office To Addressee" service under 37 C.F.R. 1.10 on the date indicated above and are addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Judith M. Zettle  
Signature of Person Mailing Documents

11/12/99  
JC688  
USPTO  
COURIER DELIVERY ONLY  
5 CORPORATE DRIVE  
TROY, MICHIGAN 48098  
(248) 641-1600

09439300141239

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

|                                  |   |                                       |
|----------------------------------|---|---------------------------------------|
| Group Art Unit:                  | ) | <b>Attorney Docket No. DKT 97074A</b> |
|                                  | ) | (8001-000020-COB)                     |
| Examiner:                        | ) |                                       |
|                                  | ) |                                       |
| Inventor(s): Norman Moss, et al. | ) | <b>Transmittal of</b>                 |
|                                  | ) | <b>FORMAL DRAWINGS</b>                |
| Serial No.                       | ) |                                       |
|                                  | ) |                                       |
| Filed:                           | ) | <b>Express Mail Label</b>             |
|                                  | ) | <b>No. EJ 948 719 073 US</b>          |
| Title: "REGENERATIVE PUMP HAVING | ) |                                       |
| VANES AND SIDE CHANNELS          | ) |                                       |
| PARTICULARLY SHAPED TO           | ) |                                       |
| DIRECT FLUID FLOW"               | ) |                                       |



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Washington, D.C. 20231

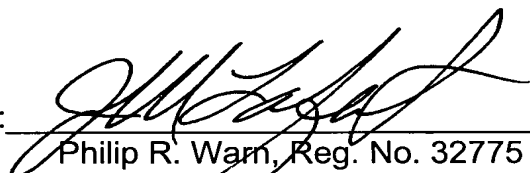
Sir:

Subject to the approval of the Examiner in charge of this application, please enter the enclosed eleven (11) sheets of formal drawings and substitute them for the informal drawings filed with this application.

Respectfully submitted,

HARNESS, DICKEY & PIERCE, P.L.C.  
Attorneys for Applicant(s)

By: \_\_\_\_\_

  
Philip R. Warn, Reg. No. 32775  
Joseph M. Lafata, Reg. No. 37166

P.O. Box 828  
Bloomfield Hills, MI 48303  
(248) 641-1600

Dated: November 12, 1999

PRW:jmz